Cont B1

25. The HIV-1 virus of claim 23, wherein said amino acid sequence comprises more than 1 amino acid residue of the amino acid sequence of HIV-1ELI that is not present in the amino acid sequence of HIV-1IIIB, HIV-1BRU, or HIV-1ARV-2.

26. The HIV-1 virus of claim 25, wherein said amino acid sequence comprises 3 amino acid residues of the amino acid sequence of HIV-1ELI that are not present in the amino acid sequence of HIV-1IIIB, HIV-1BRU, or HIV-1ARV-2.

27. The HIV-1 virus of claim 25, wherein said amino acid sequence comprises 5 amino acid residues of the amino acid sequence of HIV-1ELI that are not present in the amino acid sequence of HIV-1IIIB, HIV-1BRU, or HIV-1ARV-2.

28. The HIV-1 virus of claim 25, wherein said amino acid sequence comprises 7 amino acid residues of the amino acid sequence of HIV-1ELI that are not present in the amino acid sequence of HIV-1IIIB, HIV-1BRU, or HIV-1ARV-2.

29. A purified HIV-1 virus,

wherein said virus encodes a Pol protein comprising an amino acid sequence that comprises at least 1 amino acid residue of the amino acid sequence of HIV-1ELI that is not present in the amino acid sequence of HIV-1IIIB, HIV-1BRU, or HIV-1ARV-2.

30. The HIV-1 virus of claim 29, wherein said amino acid sequence comprises 1 amino acid residue of the amino acid sequence of HIV-1ELI that is not present in the amino acid sequence of HIV-1IIIB, HIV-1BRU, or HIV-1ARV-2.

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FARABOW, GARRETT,
& DUNNER, L.L.P.
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31. The HIV-1 virus of claim 29, wherein said amino acid sequence comprises more than 1 amino acid residue of the amino acid sequence of HIV-1ELI that is not present in the amino acid sequence of HIV-1IIIB, HIV-1BRU, or HIV-1ARV-2.

32. The HIV-1 virus of claim 31, wherein said amino acid sequence comprises 3 amino acid residues of the amino acid sequence of HIV-1ELI that are not present in the amino acid sequence of HIV-1IIIB, HIV-1BRU, or HIV-1ARV-2.

33. The HIV-1 virus of claim 31, wherein said amino acid sequence comprises 5 amino acid residues of the amino acid sequence of HIV-1ELI that are not present in the amino acid sequence of HIV-1IIIB, HIV-1BRU, or HIV-1ARV-2.

34. The HIV-1 virus of claim 31, wherein said amino acid sequence comprises 7 amino acid residues of the amino acid sequence of HIV-1ELI that are not present in the amino acid sequence of HIV-1IIIB, HIV-1BRU, or HIV-1ARV-2.

35. A purified HIV-1 virus,

wherein said virus encodes an Env protein comprising an amino acid sequence that comprises at least 1 amino acid residue of the amino acid sequence of HIV-1ELI that is not present in the amino acid sequence of HIV-1IIIB, HIV-1BRU, or HIV-1ARV-2.

36. The HIV-1 virus of claim 35, wherein said amino acid sequence comprises 1 amino acid residue of the amino acid sequence of HIV-1ELI that is not present in the amino acid sequence of HIV-1IIIB, HIV-1BRU, or HIV-1ARV-2.

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37. The HIV-1 virus of claim 35, wherein said amino acid sequence comprises more than 1 amino acid residue of the amino acid sequence of HIV-1ELI that is not present in the amino acid sequence of HIV-1IIIB, HIV-1BRU, or HIV-1ARV-2.

38. The HIV-1 virus of claim 37, wherein said amino acid sequence comprises 3 amino acid residues of the amino acid sequence of HIV-1ELI that are not present in the amino acid sequence of HIV-1IIIB, HIV-1BRU, or HIV-1ARV-2.

39. The HIV-1 virus of claim 37, wherein said amino acid sequence comprises 5 amino acid residues of the amino acid sequence of HIV-1ELI that are not present in the amino acid sequence of HIV-1IIIB, HIV-1BRU, or HIV-1ARV-2.

40. The HIV-1 virus of claim 37, wherein said amino acid sequence comprises 7 amino acid residues of the amino acid sequence of HIV-1ELI that are not present in the amino acid sequence of HIV-1IIIB, HIV-1BRU, or HIV-1ARV-2.

41. A purified HIV-1 polypeptide fragment,

wherein said polypeptide fragment binds to antibodies in LAS patient sera, and

wherein said polypeptide fragment comprises an amino acid sequence that comprises at least 1 amino acid residue of the amino acid sequence of HIV-1ELI that is not present in the amino acid sequence of HIV-1IIIB, HIV-1BRU, or HIV-1ARV-2.

42. The polypeptide fragment of claim 41, wherein said polypeptide fragment comprises 1 amino acid residue of the amino acid sequence of HIV-1ELI that is not present in the amino acid sequence of HIV-1IIIB, HIV-1BRU, or HIV-1ARV-2.

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43. The polypeptide fragment of claim 41, wherein said polypeptide fragment comprises more than 1 amino acid residue of the amino acid sequence of HIV-1ELI that is not present in the amino acid sequence of HIV-1IIIB, HIV-1BRU, or HIV-1ARV-2.

44. The polypeptide fragment of claim 43, wherein said polypeptide fragment comprises 3 amino acid residues of the amino acid sequence of HIV-1ELI that are not present in the amino acid sequence of HIV-1IIIB, HIV-1BRU, or HIV-1ARV-2.

45. The polypeptide fragment of claim 43, wherein said polypeptide fragment comprises 5 amino acid residues of the amino acid sequence of HIV-1ELI that are not present in the amino acid sequence of HIV-1IIIB, HIV-1BRU, or HIV-1ARV-2.

46. The polypeptide fragment of claim 43, wherein said polypeptide fragment comprises 7 amino acid residues of the amino acid sequence of HIV-1ELI that are not present in the amino acid sequence of HIV-1IIIB, HIV-1BRU, or HIV-1ARV-2.

47. The polypeptide fragment of any of claims 41-46, wherein said polypeptide fragment comprises 5-150 amino acid residues.

48. The polypeptide fragment of claim 47, wherein said polypeptide fragment comprises 5-250 amino acid residues.

49. The polypeptide fragment of claim 47, wherein said polypeptide fragment comprises one or more Asn-X-Thr or Asn-X-Ser groups.

50. The polypeptide fragment of any of claims 41-46, wherein said polypeptide fragment is a fragment of HIV-1 Gag.

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51. The polypeptide fragment of any of claims 41-46, wherein said polypeptide fragment is a fragment of HIV-1 Pol.

52. The polypeptide fragment of any of claims 41-46, wherein said polypeptide fragment is a fragment of HIV-1 Env.

53. A purified HIV-1 nucleic acid fragment,

wherein said nucleic acid fragment encodes a polypeptide fragment,

wherein said polypeptide fragment binds to antibodies in LAS patient sera, and

wherein said polypeptide fragment comprises an amino acid sequence that comprises at least 1 amino acid residue of the amino acid sequence of HIV-1ELI that is not present in the amino acid sequence of HIV-1IIIB, HIV-1BRU, or HIV-1ARV-2.

54. The nucleic acid fragment of claim 53, wherein said encoded polypeptide fragment comprises 1 amino acid residue of the amino acid sequence of HIV-1ELI that is not present in the amino acid sequence of HIV-1IIIB, HIV-1BRU, or HIV-1ARV-2.

55. The nucleic acid fragment of claim 53, wherein said encoded polypeptide fragment comprises more than 1 amino acid residue of the amino acid sequence of HIV-1ELI that is not present in the amino acid sequence of HIV-1IIIB, HIV-1BRU, or HIV-1ARV-2.

56. The nucleic acid fragment of claim 55, wherein said encoded polypeptide fragment comprises 3 amino acid residues of the amino acid sequence of HIV-1ELI that are not present in the amino acid sequence of HIV-1IIIB, HIV-1BRU, or HIV-1ARV-2.

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57. The nucleic acid fragment of claim 55, wherein said encoded polypeptide fragment comprises 5 amino acid residues of the amino acid sequence of HIV-1ELI that are not present in the amino acid sequence of HIV-1IIIB, HIV-1BRU, or HIV-1ARV-2.

58. The nucleic acid fragment of claim 55, wherein said encoded polypeptide fragment comprises 7 amino acid residues of the amino acid sequence of HIV-1ELI that are not present in the amino acid sequence of HIV-1IIIB, HIV-1BRU, or HIV-1ARV-2.

59. The nucleic acid fragment of any of claims 53-58, wherein said encoded polypeptide fragment comprises 5-150 amino acid residues.

60. The nucleic acid fragment of claim 59, wherein said encoded polypeptide fragment comprises 5-250 amino acid residues.

61. The nucleic acid fragment of claim 59, wherein said encoded polypeptide fragment comprises one or more Asn-X-Thr or Asn-X-Ser groups.

62. The nucleic acid fragment of any of claims 53-58, wherein said polypeptide fragment is a fragment of HIV-1 Gag.

63. The nucleic acid fragment of any of claims 53-58, wherein said polypeptide fragment is a fragment of HIV-1 Pol.

64. The nucleic acid fragment of any of claims 53-58, wherein said polypeptide fragment is a fragment of HIV-1 Env.--

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FINNEGAN, HENDERSON,
FARABOW, GARRETT,
& DUNNER, L.L.P.
1300 I STREET, N. W.
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